## Problemath 1

What are the solutions  $x \in \mathbb{R}$  of the equation

$$|x+1|-|x|+3|x-1|-2|x-2|=x+2$$
?

## **Problemath 2**

Let p(x) be a polynomial with integer coefficients such that p(2) = 13 and p(10) = 5. If p(x) has one integer root, what is the value of this root?

## **Problemath 3**

Is it possible to assemble 250 bricks of size  $1\times1\times4$  into a  $10\times10\times10$  cube ?

Deadline Friday 3 October 14:00